Carl Perkins IV Secondary Reserve Grant Career and Technical Education (CTE) For 2017-18 School Year

The 2017-18 Carl Perkins IV Secondary Reserve Grant application will be available in ePlan on February 20, 2017. The application period will close on April 3, 2017 at 11:59 p.m. CDT.

In addition to submitting a completed application in ePlan, all eligible applicants (LEAs) will need to submit by email a ***Notice of Intent to Apply*** to Bobby.Sanborn@tn.gov by 4:30 p.m. (CST) on March 3, 2017. Failure to submit a *Notice of Intent to Apply* by the stated deadline will disqualify any subsequent application filed by the LEA. The Intent to Apply form is on page 7 of this document.

Critical Dates
1. February 20: Application available in ePlan
2. March 3 (no later than 4:30 p.m. (CST)): Deadline for *Notice of Intent to Apply*
3. April 3 (no later than 11:59 p.m. (CDT)): Deadline for *Submission of Applications*
4. May 31 (or earlier): *Grant Decision Letters Released*

Funding Opportunity Description

Grant Purpose
The Carl Perkins IV Secondary Reserve Grant (hereinafter referred to as "Perkins Reserve Grant") is authorized under the Carl Perkins IV Act of 2006, Section 112(a)(1). States may reserve not more than 10 percent (or 8.5 percent of the total allotment) for distribution to:
1. **Local programs in rural areas**: defined as a rural and/or sparsely populated LEA is determined based on the NCES Locale Code eligibility requirements for Title VI of ESEA, Rural Education Initiative (Locale Code 6, 7 or 8);
2. **Areas with high numbers of CTE students:** an LEA with 200 or more CTE participants in grades 9–12 is considered an LEA with high numbers of CTE students; or,
3. **Areas with high percentages of CTE students**: an LEA with 25 percent or more of the total student population in grades 9–12 are CTE participants is considered a high percentage LEA.

The purpose of the reserve grant is to assist LEAs in (a) the preparation of students who enroll in career and technical education (CTE) courses for high-skill, high-wage, and/or high-demand occupations, emerging fields, and (b) strengthening linkages between secondary and postsecondary CTE programs of study.

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The Tennessee Department of Education (TDOE) will distribute reserve grant funds to eligible LEAs through a competitive application process. Awarded funds must be used as described in Section 135 (local uses of funds) in the Carl Perkins IV Act of 2006.

Grant Description

Applicants (LEAs) should approach their grant proposals based on one of two models:
1. **Continuation** of a current 2016-17 Perkins Reserve Grant
2. A **new** Perkins Reserve Grant
   (Current grantees are eligible to submit an application for a separate, new initiative for 2017-18.)

Grant Background

Since the passing of the Carl Perkins IV Act of 2006, TDOE has exercised the option to offer the Perkins Reserve Grants. Since fiscal year 2013-14, the design and the areas of focus of the Perkins Reserve Grants have reflected the strategic direction of the department and the division of college, career and technical education.

Grant Award Information

Type of Award: Discretionary
Estimated Amount of Available Funds: $1,570,000
Estimated Number of Awards: 20-35
Project Period: A total of twelve months from July 1, 2017 to June 30, 2018 - all funds must be obligated by June 30, 2018 and liquidated by September 30, 2018.

Note: The department is not bound by any funding or award estimates in this notice.

Applicant Eligibility

Eligible Applicants: Local Education Agencies (LEAs), as defined in the Elementary and Secondary Education Act, who demonstrate an ability to achieve one or more of the five focus areas of this grant and are otherwise eligible under the Carl Perkins IV Act of 2006.

Cost Sharing or Matching: It is expected that an applicant's budget proposal reflects a local match contribution to the proposed project. Points will be awarded based on the amount of effort towards identifying a match, which may be in-kind or the leveraging of other grant awards. There is no minimum percentage requirement. Indirect charges are not allowed, but there is a 5 percent allowance for administrative costs. A budget template is provided in this announcement and in ePlan.

Funds to be Released: All grant funding will be by reimbursement based on invoices submitted by the applicant's fiscal agent. One hundred percent (100%) of the funding is available for reimbursement at the start of the grant period. Certain focus areas may require additional programmatic requirements be met before reimbursement requests can be fulfilled.

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Grant Application Submission

Submission: Applications must be submitted electronically via the ePlan system at eplan.tn.gov. The application will be available in ePlan on February 20.

A _Notice of Intent to Apply_ must be submitted no later than 4:30 p.m. (CST) on March 3, 2017. Failure to do so will disqualify any subsequent submitted grant application.

Applicants will complete and submit their grant applications in ePlan, including their proposed budgets. Applicants will be required to complete an _Assurances and Signatures_ form, found in ePlan, as part of their submission.

For convenience, the 2017-18 Perkins Reserve Grant focus areas and questions can be found starting on page 4 of this document. Applicants should use these questions to develop robust, thoughtful responses prior to entry in ePlan.

The deadline for grant application submission is 11:59 p.m. (CDT) on April 3, 2017.

Accountability Requirements: Applicants awarded a Perkins Reserve Grant will be required to complete the following to remain in good standing:
- Quarterly progress reports on identified action steps.
- Completed reimbursement forms and supporting accounting documentation for each reimbursement request.
- Final report or presentation on the achievements made possible through the Perkins Reserve Grant. This will be a culminating artifact and will occur no later than July 30, 2018.
- Please note: additional programmatic requirements may be required of a specific focus area to ensure compliance.

Questions:

Questions about the application process may be directed to Bobby.Sanborn@tn.gov, or you can reach Bobby by phone at (615) 532-2846. Specific focus area questions should be directed to the appropriate contact listed under each focus area in this document.

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Focus Areas

Listed below are the five focus areas for the Perkins Reserve Grant. The first three focus areas cannot be combined. However, the fourth and fifth focus areas (Site License and Capstone Industry Certifications) can either be combined/submitted with one of the other (Work-Based Learning, Equipment, and Pathways) focus areas or can be submitted as stand-alone focus areas.

For example, an application can be submitted reflecting the Work-Based Learning, Site License, and Capstone Industry Certifications focus areas; however, an application cannot be submitted for Work-Based Learning and Equipment. Only the Site License and Capstone Industry Certifications focus areas can be combined or combined with one of the other three (Work-Based Learning, Equipment, and Pathways) focus areas when completing an application.

1. **Work-Based Learning** (WBL). Under this focus area, an applicant may choose one of the following models:
   a. Develop/plan a **youth apprenticeship program** that would be piloted subsequently in partnership with TDOE and based on the basic principles established by the US Department of Labor (for additional assistance, see the US Department of Labor Apprenticeship Planning Guide).

      The 2017-18 school year would serve as a planning year with the grant **award capped at $10,000**. With the successful completion of the planning year, a grant recipient may apply for 2018-19 Perkins Reserve Grant funding to complement the implementation of the program. Applicants interested in this focus are strongly encouraged to contact either Chelsea.Parker@tn.gov or Mikki.Hornstein@tn.gov to discuss further.

   b. Develop/plan a **K-12 work-based learning district strategy** to promote career awareness and exploration beginning in early grades and culminating with capstone WBL experiences. District strategy should promote career readiness for students through collaborative planning between key stakeholders including district and school-based administrators; school counselors; and, general education, CTE and special education educators. The strategy must be reflective of the TDOE-promoted WBL model.

      The 2017-18 school year would serve as a planning year with the grant **award capped at $10,000**. With the successful completion of the planning year, a grant recipient may apply for 2018-19 Perkins Reserve Grant funding to implement the strategy. Applicants interested in this are strongly encouraged to contact either Chelsea.Parker@tn.gov or Mikki.Hornstein@tn.gov to discuss further.

   To qualify for consideration, please complete the application specifically for this focus area. See page 8 for a listing of the grant questions for this focus area.

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2. Purchase of **lab-based** and/or **project-based equipment** needed to offer one or more TDOE-promoted [programs of study](#) listed for the 2017-18 school year. To qualify for this focus area, an applicant must:

    i. offer the identified program of study for the 2017-18 school year (as reflected in eTIGER);

    ii. have students enrolled in one or more courses tied to the program of study;

    iii. explain how, and show evidence of, the identified program of study is fully aligned with local and/or regional high demand, high skills industry opportunities; and,

    iv. explain how, and show evidence of, the identified program of study is fully aligned with a local and/or regional postsecondary program leading to a credential or degree.

For this focus area, the grant **award is capped at $50,000**. For equipment that exceeds this cap amount, an applicant is encouraged to consider ways to leverage the Perkins Reserve Grant with other funding sources (public, private, and corporate) that could further enhance the district's purchasing power.

To qualify for consideration, please complete the application specifically for this focus area. See page 9 for a listing of the grant questions for this focus area. Applicants with questions about appropriately aligned equipment should contact the identified [Career Cluster Consultant](#).

3. Accelerate the implementation and/or expansion of a grades 7–14/16 **Education-to-Career Learning Pathway** that reinforces education-to-career learning pathways for all students based on the [Pathways Tennessee](#) (TN) framework. The statewide Pathways TN initiative serves as the state's leading driver in linking local, regional, and state economic and labor market needs and trends with secondary and postsecondary offerings and training across counties and regions.

To qualify for this focus area, the following criteria must be met:

1. The applicant must be the identified fiscal agent for an existing Pathways TN intermediary organization.
   (Please note: serving as the fiscal agent does not preclude an LEA from applying for Perkins Reserve Grant funds under other focus areas, as outlined in this application.)
2. The application must reflect the priorities of an approved Pathways TN regional/local strategic plan, and must show how the regional partners are moving towards long-term sustainability of the regional/local Pathways initiative through letters of support, memoranda of understanding (where appropriate), and local match/in-kind funding.

Questions about this focus area, including Perkins Reserve Grant award caps, should be directed to Melissa.Canney@tn.gov. See page 10 for more information on this focus area. To learn more about Pathways TN and its regional initiatives, visit www.pathwaystn.org.

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The following focus areas can either be combined/submitted with one of the other focus areas or can be submitted as stand-alone focus areas:

4. **Testing site/licensed instructor** to administer **student capstone industry certifications**. TDOE-identified capstone industry certifications can often be tested on-site or through an approved licensed instructor. This focus area allows for an applicant to request funding to 1) become an approved testing site for a TDOE-promoted student capstone industry certification and/or 2) allow an instructor to become a licensed administrator of a TDOE-promoted student capstone industry certification. See Appendix B for a list of TDOE-identified testing site/licensed instructor certifications. *(Please note: If an industry certification is __required__ for teacher licensure, then exam and preparation costs cannot be reimbursed per Perkins guidelines. Only certifications that are not required for a teacher's license may be included.)*

   An awarded applicant will be reimbursed following submission of appropriate documentation showing exam costs, site licenses, and preparation materials. For this focus area, the grant **award is capped at $12,000**.

   To qualify for consideration, please complete the application specifically for this focus area. See page 10 for a listing of the grant questions for this focus area. Applicants with questions should contact Heather.Justice@tn.gov. *(Please note: the department reserves the right to disallow reimbursements for certifications not listed.)*

5. Exam fee costs tied to TDOE-identified **student capstone industry certifications** as identified and listed in the department's 2017-18 programs of study. An awarded applicant will be reimbursed following submission of appropriate exam cost documentation for one or more TDOE-identified student capstone industry certifications. Please refer to Appendix A for all promoted student capstone industry certifications and the Student Industry Certification Policy. *(NOTE: the department reserves the right to disallow reimbursements for certifications not listed, as well as to disallow any reimbursements for certifications that are not aligned to the identified program(s) of study. In addition, preparation materials will not be reimbursed.)*

   This focus area applies only to industry certifications that are listed as student **capstone industry certifications** (i.e. they are aligned to a TDOE-promoted program of study, are given with the final fourth level course, and are transferrable to postsecondary). *(Exception: a TDOE-promoted program of study which promotes module certifications leading up to a capstone experience is allowable under this focus area).* Districts are restricted to a selection of **no more than ten** different industry certifications to ensure quality implementation. For this focus area, the grant **award is capped at $12,000**. An awarded applicant may apply annually for this focus area.

   To qualify for consideration, please complete the application specifically for this focus area. See page 12 for a listing of the grant questions for this focus area. Applicants with questions should contact Heather.Justice@tn.gov.

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2017-18 Perkins IV Secondary Reserve Grant
Notification of Intent to Apply

Date: _____

Local Education Agency(ies) (Applicant): _____

Grant Application Model (circle or highlight one):

1. **Continuation** of a current 2016-17 Carl Perkins IV Reserve Grant
2. A **new** Carl Perkins IV Reserve Grant
   (Current grantees are eligible to submit an application for a separate, new initiative for 2017-18.)

Grant Application Focus Area:

1. Circle or highlight the desired focus area below**:**

   - **Youth apprenticeship model** or progressive K-12 **work-based learning district strategy**
   - **Lab-based** and/or **project-based equipment**
   - Grades 7–14/16 **education-to-career learning pathway**

2. The following focus areas can either be combined/submitted with one of the above focus areas or can be submitted as stand-alone focus areas:

   - **Testing site/licensed instructor** to administer student capstone industry certifications
   - TDOE identified student **capstone industry certifications**

Projected Request Amount (if more than one focus area, list each separately): _____

Briefly describe the rationale for Focus Area selection(s). (Please keep this to ½ page or less.)

Submit *Notice of Intent to Apply* by email to Bobby.Sanborn@tn.gov no later than 4:30 p.m. (CST) on March 3, 2017. Failure to do so will disqualify any subsequent submitted grant application.

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TN Department of Education

Questions for Focus Area 1
Youth Apprenticeship/K-12 Work-Based Learning District Strategy

The grant application and proposed budget must be completed in ePlan. The application will open in ePlan on February 20, 2017. The deadline for submission in ePlan is 11:59 p.m. (CDT) on April 3, 2017.

This focus area can be supplemented with the site license and/or industry certifications focus areas.

1. Which work-based learning focus area have you selected: "Youth Apprenticeship" or "K-12 District Strategy?"

2. What is the proposed title of the initiative?

3. Briefly describe (no more than two paragraphs) why you are applying for this particular focus area. Please be sure to identify how this fully aligns to the larger goals of your district strategic plan. If it does not currently align, please state how the resulting work from the planning grant will drive future integration with your district strategic plan going forward.

4. Please respond to the following:
   a. If "Youth Apprenticeship," please state (a) what industry sector(s) will be targeted, (b) what local/regional data or industry strengths justify your selection, and (c) what current opportunities exist in your targeted industry sector(s) within your local area/region.
   b. If "K-12 District Strategy," please state (a) what specific district and community resources and relationships will help you achieve this work, and (b) what other initiatives/priorities in your district and community will encourage the timely development of this plan.

5. District Planning Team: (a) List specific names and titles of district/school personnel who will serve on the planning team and (b) identify who will lead the team. To complement this, please submit as part of the application submission a signed letter from the Director of Schools, affirming (a) the appointment/involvement of these identified personnel and (b) district commitment to the planning and implementation of the initiative.

6. External Partners: List each business and/or community organization, along with point person(s), who will serve as external planning partners. Please identify which are current district partners and which would be new district partners for planning purposes. For each listed partner, state why their involvement is necessary.

7. Describe the meeting and reporting structures that will guide your planning process, including frequency or meetings and key topics to be addressed. Identify any oversight and decision-making processes that will guide the development of the plan and the successful implementation going forward. This includes any approvals needed by district administration, the local school board, or by an external entity; in these cases, please identify what would need to be approved in order to implement the plan.

8. Identify a timeline of priority action steps as well as key deliverables for each major step that will indicate that the planning process is on target. This includes any approvals needed and when by district

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administration, the local school board, or by an external entity; in these cases, please identify what would need to be approved in order to implement the plan. *(Please note: An awarded district will complete a thorough 12-month planning document, which will be provided by the department.)*

9. Identify and show how you meet one of the below requirements (definitions found on page 1 of the grant announcement):
   a. Local programs in rural areas,
   b. Areas with high numbers of CTE students, or
   c. Areas with high percentages of CTE students.

Questions for Focus Area 2
Lab/Project Based Equipment

The grant application and proposed budget must be completed in ePlan. The application will open in ePlan on February 20, 2017. The deadline for submission in ePlan is 11:59 p.m. (CDT) on April 3, 2017.

This focus area can be supplemented with the site license and/or industry certifications focus areas.

1. Which 2017-18 program of study is identified for this focus area? Please also list the courses affiliated with this program of study.

2. What equipment will be purchased? (Please provide a detailed list.)

3. Provide local/regional data and information showing how the identified program of study is aligned with (a) postsecondary and (b) economic/labor opportunities that will prepare students for high-skill, high-wage, or high-demand occupations.

4. Based on identified program of study, what efforts have already been undertaken to (a) ensure a successful equipment purchase that will allow (b) the program of study and accompanying course to be implemented during the 2017-18 school year?

5. Identify strategic partnerships (postsecondary, industry, other districts) already in place who will provide an advantage in implementing the identified program of study.

6. If other funds will be leveraged to fulfill the purchase of all needed equipment for the identified program of study, please list: the funding source, what will be purchased using this other source, total amount originating from this other source, how it will complement the program of study and the equipment identified for reserve grant funding.

7. What commitments (funding or otherwise) are anticipated by the district to ensure sustainability of the equipment once the reserve grant funds expire? (Please be specific.)

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8. Explain how the awarding of a Perkins reserve grant will complement your regular Perkins formula funded programs.

9. How many students will be impacted during the grant year?

10. Identify and show how you meet one of the below requirements (definitions found on page 1 of the grant announcement):
    a. Local programs in rural areas,
    b. Areas with high numbers of CTE students, or
    c. Areas with high percentages of CTE students.

Questions for Focus Area 3
Grades 7–14/16 Education-to-Career Learning Pathways Questions

The grant application and proposed budget must be completed in ePlan. The application will open in ePlan on February 20, 2017. The deadline for submission in ePlan is 11:59 p.m. (CDT) on April 3, 2017.

This focus area can be supplemented with the site license and/or industry certifications focus areas.

To apply for this focus area, please contact Melissa.Canney@tn.gov. Applicants who are approved to apply (by meeting the focus area criteria) will receive the required grant application questions directly via email.

Once completed, the responses should be uploaded into the "Related Documents" section of the "CTE Perkins Reserve" funding application for fiscal year 2018, in addition to submitting the required budget information in ePlan.

Questions for Focus Area 4
Testing Site/Licensed Instructor

The grant application and proposed budget must be completed in ePlan. The application will open in ePlan on February 20, 2017. The deadline for submission in ePlan is 11:59 p.m. (CDT) on April 3, 2017.

This focus area can supplement any of the other focus areas or be stand-alone.

1. List (a) which TDOE-promoted 2017-18 student capstone industry certifications will be targeted under this area of focus, (b) the aligned TDOE-promoted program of study(ies), and (c) the capstone courses (provide course name and course code) for each industry certification listed.

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2. For each industry certification listed above, identify whether or not you are seeking to either (a) set up a testing site or (b) train a licensed instructor. *(Please note: there are some certifications which will allow for both. If this is the case, please specify that the district will be seeking both options. See the list of approved industry certifications in Appendix B.)*

3. What is the total amount of funding requested for this focus area and why?

4. Identify strategic partnerships (postsecondary, industry, other districts) already in place who will provide an advantage in implementing the identified program of study.

5. What efforts have already been undertaken to ensure success during the grant period?

6. Due to this focus area, how many students will become eligible to complete the coursework and sit for their capstone industry certifications in the 2017-18 school year?

7. Explain how the awarding of a Perkins reserve grant will complement your regular Perkins formula funded programs.

8. What commitments (funding or otherwise) are anticipated by the district to ensure sustainability of the equipment once the reserve grant funds expire? (Please be specific.)

9. Identify and show how you meet one of the below requirements (definitions found on page 1 of the Grant Announcement):
   a. Local programs in rural areas,
   b. Areas with high numbers of CTE students, or
   c. Areas with high percentages of CTE students.

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Questions for Focus Area 5
Capstone Industry Certification Grant

The grant application and proposed budget must be completed in ePlan. The application will open in ePlan on February 20, 2017. The deadline for submission in ePlan is 11:59 p.m. (CDT) on April 3, 2017.

This focus area can supplement any of the other focus areas or be stand-alone.

Applicant should include the total amount requested for student industry certifications on the "Other Supplies & Materials" line (71300 499) of the budget template, even if additional costs related to another 2017-18 Perkins reserve grant focus areas are also listed on this line.

1. List (a) which TDOE-promoted 2017-18 student capstone industry certifications will be targeted under this area of focus, (b) the aligned TDOE-promoted program of study, and (c) the aligned course in which students will be enrolled when they take the identified industry certification exam (provide course name and course code for each certification listed). *(Please Note: Applicants are restricted to the selection of no more than ten different capstone industry certifications to ensure quality implementation.)*

2. What is the total amount of funding requested for this focus area?

3. How many students are expected to be prepared to take each identified industry certification during the 2017-18 school year? (Please list for each identified certification.)

4. How will you ensure your students will complete the required coursework in time to sit for the identified industry certifications? How will you ensure that your students have progressed appropriately through their program study prior to sitting for the exam?

5. What is your plan to ensure **all** students in the capstone course will sit for the exam? *(Please note: it is the department's expectation that districts test **all students** who are enrolled in a capstone course).* If a district is not testing all students enrolled in the course, provide justifications for this decision in the response below.

6. How will the actual count and percentage of students who passed the exam be tracked and recorded by the district? What database or system will be used?

7. How do you plan to promote this opportunity to the following stakeholders: 1) parents, 2) students, 3) teachers, 4) school counselors, and 5) district and school administrators?

8. Identify and show how you meet one of the below requirements (definitions found on page 1 of the Grant Announcement):
   a. Local programs in rural areas,
   b. Areas with high numbers of CTE students, or
   c. Areas with high percentages of CTE students.

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2017-18 Perkins IV Reserve Grant Sample Budget Template
(to be uploaded in ePlan)

PERKINS RESERVE GRANT BUDGET & LOCAL MATCH

INSTRUCTIONS

1. Complete the "Perkins Reserve Budget" column according to the exact amount of funding you are requesting.

2. Make sure that the Perkins Reserve Budget that you enter on this page exactly matches the budget that you enter in the budget section of your ePlan application.

3. Complete the "Local Match" column to reflect local funds you are using to support your Perkins Reserve program.

4. Once completed, upload this document to the "Budget & Local Match" link on the "Related Documents" page of your ePlan CTE Perkins Reserve application.

EXPENDITURE CATEGORY		PERKINS RESERVE BUDGET	LOCAL MATCH
71300 116	Salaries		
71300 162	Clerical Personnel		
71300 163	Educational Assistant Salaries		
71300 189	Other Salaries & Wages (such as PD)		
71300 201	Social Security		
71300 204	State Retirement		
71300 206	Life Insurance		
71300 207	Medical Insurance		
71300 208	Dental Insurance		
71300 210	Unemployment Compensation		
71300 211	Local Retirement		
71300 212	Employer Medicare		
71300 499	Other Supplies & Materials		
71300 730	CTE Instruction Equipment		
72130 355	Teacher PD (PD Travel-documented)		
72130 399	Other Contracted Svcs (outside presenter's PD)		
72130 524	PD Materials, Facility Rental, Supplies		
72230 355	CTE Director Travel		
72230 524	CTE Director Inservice/PD		
72230 599	Other Charges		
	TOTALS	$0.00	$0.00

Please note: The sum of the totals in the shaded cells above (5% cap on administration) cannot exceed 5% of your total CTE Perkins budget.	
Here is the total of your administrative costs: This number may not exceed 5% of your total grant budget.	$0.00
Here is your total budget amount:	$0.00
Here is your percentage of administration: This number may not exceed 5.00.	

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Appendix A: Allowable Capstone Industry Certifications

Certification	Aligned Course	Program(s) of Study	Career Cluster(s)
Level I Siemens Certified Mechatronic Systems Assistant	Mechatronics II (6157)	Mechatronics	Advanced Manufacturing
Machining Level I - Measurement, Materials, and Safety Certification (NIMS)	Principles of Manufacturing (5922)	Machining Technology	Advanced Manufacturing
Production Certification (CPT)	Principles of Manufacturing (5922)	Machining Technology	Advanced Manufacturing
AWS SENSE Entry Level Welder	Welding I (6078)	Welding	Advanced Manufacturing
AWS SENSE Advanced Level Welder	Welding II (6033)	Welding	Advanced Manufacturing
American Welding Society Certified Welder	Welding II (6033)	Welding	Advanced Manufacturing
Tennessee Specific Industry Certification-Animal Science (currently in pilot year)	Veterinary Science (5961)	Veterinary and Animal Science	Agriculture, Food, & Natural Resources
Commercial Pesticide Certification – Core (03) (Note: Must be 18 years old)	Landscaping and Turf Science (5951)	Horticulture Science	Agriculture, Food, & Natural Resources
HVAC Excellence, Heating, Electrical, Air Conditioning Technology (H.E.A.T.)	HVAC (6077)	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
HVAC Excellence Employment Ready Certifications	HVAC (6077)	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
Universal R-410A	HVAC (6077)	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
EPA Section 608 Universal	HVAC (6077)	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
NCCER Core Curriculum	Fundamentals of Construction (6073)	Residential & Commercial Construction; Structural Systems; Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
NCCER Carpentry Level One	Structural Systems I (6164)	Structural Systems	Architecture & Construction
NCCER Carpentry Level Two	Structural Systems II (6165)	Structural Systems	Architecture & Construction
NCCER Construction Technology	Residential & Commercial Construction I (6162)	Residential & Commercial Construction	Architecture & Construction
NCCER Electrical Level One	Electrical Systems (6075)	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction

NCCER Plumbing Level One	Plumbing Systems (6082)	Mechanical, Electrical, & Plumbing (MEP) Systems	Architecture & Construction
Microsoft Office Specialist (Excel)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration
Microsoft Office Specialist (PowerPoint)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration
Microsoft Office Specialist (Word)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration
Microsoft Office Expert (pass the two-part Expert Exam in Excel)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration
Microsoft Office Expert (pass the two-part Expert Exam in Word)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration
Microsoft Office Master - Track 1 (Word Expert + Excel Core + Elective)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration
Microsoft Office Master - Track 2 (Excel Expert + Word Core + Elective)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration
Microsoft Office Master - Track 3 (Word Expert + Excel Expert)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration
Certified EKG Technician	Cardiovascular Services (6131)	Diagnostic Services	Health Science
Certified Nursing Assistant	Nursing Education (6000)	Therapeutic Nursing Services	Health Science
Certified Pharmacy Technician	Pharmacological Science (6133)	Therapeutic Clinical Services	Health Science
Emergency Medical Responder (First Responder)	Emergency Medical Services (5995)	Emergency Services	Health Science
Certified Clinical Medical Assistant	Medical Therapeutics (5999) followed by Clinical Internship (5993)	Therapeutic Clinical Services	Health Science
Certified Personal Trainer	Exercise Science (6170) followed by Clinical Internship (5993)	Clinical Exercise Physiology	Health Science
CDA- Child Development Associate	Early Childhood Education Careers (ECEC) III (6017)	Childhood Development Services	Human Services
TN Board of Cosmetology & Barbering - TN Master Barber 1010	Barbering III (5974)	Barbering	Human Services
TN Board of Cosmetology & Barbering - TN Cosmetology 1010	Chemistry of Cosmetology (5984)	Cosmetology	Human Services
CCNA Cisco Certified Network Associate	Networking (6097)	Networking Systems	Information Technology

Cisco Certified Entry Network Tech (CCENT)	Computer Systems (6094)	Networking Systems	Information Technology
CompTIA A+	Computer Systems (6094)	Networking Systems	Information Technology
CompTIA A+	Programming and Logic II (6099)	Programming & Software Development	Information Technology
CompTIA Network+	Networking (6097)	Networking Systems	Information Technology
CompTIA IT Fundamentals	Information Technology Foundations (6905)	All Information Technology POS	Information Technology
CIW Web Design Specialist	Web Site Development (6101)	Web Design	Information Technology
CompTIA Security +	Cybersecurity II	Cybersecurity	Information Technology
Certified Solidworks Associate (CSWA) - Academic	STEM III (6146); Engineering Design II (6139); Robotics & Automated Systems (6143)	STEM Education; Engineering; Technology	STEM
I-CAR Refinish Technician ProLevel 1 or I-CAR Non-Structural Technician ProLevel 1	Collision Repair: Non-structural (6062)	Automotive Collision Repair	Transportation, Distribution, & Logistics
Automotive Service Excellence Student Certification: Maintenance & Light Repair Certification	Maintenance & Light Repair IV (5882)	Automotive Maintenance and Light Repair	Transportation, Distribution, & Logistics
Automotive Service Excellence Student Certification: Painting and Refinishing	Collision Repair: Painting & Refinishing (6063)	Automotive Collision Repair	Transportation, Distribution, & Logistics
Automotive Service Excellence Student Certification: Nonstructural Analysis/Repair	Collision Repair: Non-structural (6062)	Automotive Collision Repair	Transportation, Distribution, & Logistics
Automotive Service Excellence Student Certification: Structural Analysis/Repair	Collision Repair: Structural (6064)	Automotive Collision Repair	Transportation, Distribution, & Logistics

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Andrew Johnson Tower, 11th Floor • 710 James Robertson Parkway • Nashville, TN 37243
Tel: (615) 532-2800 • tn.gov/education

Appendix B: Allowable Site License/Instructor Certifications

Certification	Aligned Course	Program(s) of Study	Career Cluster(s)	Teacher Certification or Testing Site
Level I Siemens Certified Mechatronic Systems Assistant	Mechatronics II (6157)	Mechatronics	Advanced Manufacturing	Teacher Certification with appropriate endorsements
Production Certification (CPT)	Principles of Manufacturing (5922)	Machining Technology	Advanced Manufacturing	Teacher Certification with appropriate endorsements
American Welding Society Certified Welder	Welding II (6033)	Welding	Advanced Manufacturing	Testing Site
Microsoft Office Specialist (MOS) - All 5 Exams	Advanced Computer Applications (5904)	Office Management	Business Management & Administration	Teacher Certification with appropriate endorsements and Testing Site
Microsoft Office Specialist (Excel)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration	Teacher Certification with appropriate endorsements and Testing Site
Microsoft Office Specialist (PowerPoint)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration	Teacher Certification with appropriate endorsements and Testing Site
Microsoft Office Specialist (Word)	Advanced Computer Applications (5904)	Office Management	Business Management & Administration	Teacher Certification with appropriate endorsements and Testing Site
Certified Nursing Assistant	Nursing Education (6000)	Therapeutic Nursing Services	Health Science	Testing Site
CCNA Cisco Certified Network Associate	Networking (6097)	Networking Systems	Information Technology	Testing Site
Cisco Certified Entry Network Tech (CCENT)	Networking (6097)	Networking Systems	Information Technology	Testing Site

CompTIA A+	Information Technology Foundations (6905)	All Information Technology POS	Information Technology	Testing Site
CompTIA Network+	Networking (6097)	Networking Systems	Information Technology	Testing Site
CompTIA IT Fundamentals	Information Technology Foundations (6905)	All Information Technology POS	Information Technology	Testing Site